

WE CLAIM:

1. A stove comprising:
 - (a) a stove body defining a combustion chamber therein, the stove body comprising a top wall, a bottom wall, and at least one side wall, the top wall having an access door therein;
 - (b) a chimney in air flow communication with the combustion chamber; and
 - (c) a baffle plate disposed within the combustion chamber, the baffle plate moveable from a closed configuration to an open configuration, wherein:
 - (i) when in the closed configuration, the baffle plate is positioned substantially horizontally within the combustion chamber and is spaced apart from at least a portion of the at least one side wall; and
 - (ii) when in the open configuration, the baffle plate is positioned substantially vertically such that a pathway is created between the access door and the combustion chamber for loading fuel.
2. The stove according to claim 1, further comprising an air manifold, the air manifold positioned below the baffle plate and in air flow communication with an air source exterior to the stove, wherein the air manifold is constructed and arranged to provide air from the air source exterior to the stove to the combustion chamber.
3. The stove according to claim 2, wherein the air manifold is attached to the baffle plate.
4. The stove according to claim 3, wherein the air manifold comprises at least a first section.
5. The stove according to claim 4, wherein the first section is tubular and has apertures therethrough for providing air flow communication from the air source exterior the stove, through the tubular section, and into the combustion chamber.

6. The stove according to claim 5, wherein the air manifold further comprises a second tubular section having apertures therethrough, wherein the first and second tubular sections have lengths extending from a first end to a second end, the first and second sections are spaced apart along at least a part of their lengths, and are connected to each other.

7. The stove according to claim 6, wherein the air manifold further comprises a third tubular section having apertures therethrough, the third tubular section having a length extending from a first end to a second end, the third section spaced apart and substantially parallel to the first and second sections, the first, second, and third section connected to each other through end pieces.

8. The stove according to claim 5, wherein the tubular section provides a pivot point for pivoting the baffle plate and air manifold.

9. The stove according to claim 6, wherein the first tubular section provides a pivot point for pivoting the baffle plate and air manifold.

10. The stove according to claim 7, wherein the end pieces provide a pivot point for pivoting the baffle plate and air manifold.

11. The stove according to claim 10, further comprising mounting members disposed within the stove body, the end pieces pivotally attached to the mounting members, wherein the air manifold comprises a fourth tubular section with apertures therethrough which is attached to the mounting members spaced apart from the first, second and third tubular sections, the fourth tubular section not attached to the baffle plate.

12. The stove according to claim 1, wherein the baffle plate is spaced apart from at least a portion of the at least one side wall forming a passage from the combustion chamber to the chimney, the baffle plate moveable from a closed configuration to an open configuration, wherein:

- (i) when in the closed configuration, the baffle plate directs gases within the combustion chamber to flow from the combustion chamber, around the baffle plate, through the passage, and out the chimney; and
- (ii) when the baffle plate is in the open configuration, a by-pass pathway is formed, separate from the passage, between the combustion chamber and the chimney, so that gases within the combustion chamber flows from the combustion chamber, through the by-pass pathway, and out the chimney; the by-pass pathway not existing when the baffle plate is in the closed configuration.

13. A stove comprising:

- (a) a stove body defining a combustion chamber therein, the stove body comprising a top wall, a bottom wall and at least one side wall;
- (b) a chimney in air flow communication with the combustion chamber; and
- (c) a baffle plate disposed within the combustion chamber, the baffle plate spaced apart from at least a portion of the at least one side wall forming a passage from the combustion chamber to the chimney, the baffle plate moveable from a closed configuration to an open configuration, wherein:
 - (i) when in the closed configuration, the baffle plate directs gases within the combustion chamber to flow from the combustion chamber, around the baffle plate, through the passage, and out the chimney; and
 - (ii) when the baffle plate is in the open configuration, a by-pass pathway is formed, separate from the passage, between the combustion chamber and the chimney, so that gases within the combustion chamber flows from the combustion chamber, through the by-pass pathway, and out the chimney; the by-pass

pathway not existing when the baffle plate is in the closed configuration.

14. The stove according to claim 13, wherein the stove body comprises a top wall, a bottom wall, and at least one side wall, the stove body having an access door in one or more of the top, bottom, or side walls.

15. The stove according to claim 14, wherein the access door is in the top wall.

16. The stove according to claim 13, further comprising an air manifold positioned below the baffle plate, the combination of the baffle plate and air manifold creating a secondary combustion area below the baffle plate, the air manifold in air flow communication with a second air supply system, the air manifold constructed and arranged to directing air from outside the stove into the secondary combustion area.

17. The stove according to claim 16, wherein the air manifold is attached to the baffle plate.

18. A stove comprising:

- (a) a stove body defining a combustion chamber therein;
- (b) a first air supply system directing air from outside the stove into a first combustion area within the combustion chamber;
- (c) a baffle plate assembly disposed within the combustion chamber, the baffle plate assembly moveable from a closed configuration to an open configuration, the baffle plate assembly defining a secondary combustion area below the baffle plate and above the primary combustion area, wherein the baffle plate assembly comprises:
 - (i) a baffle plate, and
 - (ii) an air manifold positioned below the baffle plate, the air manifold in air flow communication with a second air supply system, the air manifold

constructed and arranged to direct air from outside the stove into the secondary combustion area.

19. The stove according to claim 18, wherein the stove body comprises a top wall, a bottom wall, and at least one side wall, the stove body having an access door in one or more of the top, bottom, or side walls.

20. The stove according to claim 19, wherein the access door is in the top wall.

21. The stove according to claim 19, wherein the baffle plate is spaced apart from at least a portion of the at least one side wall forming a passage from the combustion chamber to the chimney, the baffle plate moveable from a closed configuration to an open configuration, wherein:

- (i) when in the closed configuration, the baffle plate directs gases within the combustion chamber to flow from the combustion chamber, around the baffle plate, through the passage, and out the chimney; and
- (ii) when the baffle plate is in the open configuration, a by-pass pathway is formed, separate from the passage, between the combustion chamber and the chimney, so that gases within the combustion chamber flows from the combustion chamber, through the by-pass pathway, and out the chimney; the by-pass pathway not existing when the baffle plate is in the closed configuration.

22. A method of adding fuel to an existing fire in a stove utilizing primary and secondary combustion, the stove comprising:

- (a) a stove body defining a combustion chamber therein, the stove body comprising a top wall, a bottom wall, and at least one side wall, the top wall having an access door therein;
- (b) a chimney in air flow communication with the combustion chamber; and

- (c) a baffle plate disposed within the combustion chamber, the baffle plate spaced apart from at least a portion of the at least one side wall forming a passage from the combustion chamber to the chimney, the baffle plate moveable from a closed configuration to an open configuration for loading fuel, wherein:
 - (i) when in the closed configuration, the baffle plate directs gases within the combustion chamber to flow from the combustion chamber, around the baffle plate, through the passage, and out the chimney; and
 - (ii) when the baffle plate is in the open configuration, a by-pass pathway is formed, separate from the passage, between the combustion chamber and the chimney, so that gases within the combustion chamber flow from the combustion chamber, through the by-pass pathway, and out the chimney; the by-pass pathway not existing when the baffle plate is in the closed configuration;

the method comprising:

moving the baffle plate from the closed configuration to the open configuration, thus drawing heat and gases from the fire out through the by-pass pathway into the chimney;

opening the access door;

loading fuel through the door passed the open baffle plate and into the combustion chamber;

moving the baffle plate into the closed configuration; and

closing the access door.